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# Geologic and Water-Supply Reports and Maps, Nebraska

United States Dept. of the Interior

*United States Department of the Interior Geological Survey*

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

GEOLOGIC AND WATER-SUPPLY REPORTS AND MAPS

NEBRASKA

May 1971

NEBRASKA

This list contains reports and maps published by the Geological Survey relating to the geology and mineral and water resources of Nebraska. A separate list of bibliographies and publications of general interest is available on request, as are a general catalog of Geological Survey publications (not including topographic maps), and State indexes to topographic mapping.

AN ASTERISK (\*) INDICATES THAT THE PUBLICATION IS OUT OF PRINT AND NOT PURCHASABLE FROM ANY OFFICIAL SOURCE. Bulletins, professional papers, and water-supply papers for which a price is stated are for sale by the SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402, prepayment being required. Numerous libraries and educational institutions throughout the country are depositories for this material and a list of Nebraska depositories is included.

Maps, folios, hydrologic atlases, and charts are sold by the Geological Survey. They may be ordered from the WASHINGTON DISTRIBUTION SECTION, U.S. GEOLOGICAL SURVEY, 1200 S. EADS STREET, ARLINGTON, VA. 22202, or from the DENVER DISTRIBUTION SECTION, U.S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLO. 80225. Remittances should be made by check or money order payable to the Geological Survey. A discount of 20 percent is allowed on orders of \$20 or more, and 40 percent on orders of \$100 or more, based on the retail price. Some maps and other publications are available for sale over the counter only at the following Geological Survey office: Room 1012 Federal Bldg., DENVER, COLO. 80202.

References to geologic information on Nebraska may be obtained from the following Geological Survey publications: Geologic Map Index of Nebraska, described herein, from Bibliographies of North American geology - Bulletins \*746 (1785-1918), \*747 (1785-1918), 823 (1919-1928) \$3, 937 (1929-1939) \$4.25, \*1049 (1940-1949), \*985 (1950), \*1025 (1951), 1035 (1952-1953) \$2, 1054 (1954) \$1.50, \*1065 (1955), \*1075 (1956), \*1095 (1957), \*1115 (1958), \*1145 (1959), \*1195 (1950-1959) set of 4 volumes, 1196 (1960) \$2.25, \*1197 (1961), \*1232 (1962), 1233 (1963) \$3.25, \*1234 (1964), 1235 (1965) \$4.75, 1266 (1966) \$4.75, 1267 (1967) \$4.25, and 1268 (1968) \$5.25. Bibliographies and indexes of publications relating to ground water are Water-Supply Papers \*992 (1879-1945), \*1492 (1946-1955), 1863 (1963) 55¢, and 1864 (1964) \$1. A water resources investigations folder, available free upon request to the Geological Survey, Washington, D.C. 20242, shows the location of stream-gaging stations, observation wells, quality-of-water sample collection sites, areal hydrologic studies, average annual runoff, average discharge of principal streams, and availability of ground water. A brief text lists the hydrologic network, the areal and Statewide projects,

and selected references. Additional information is obtainable from Director and State Geologist, Conservation and Survey Division, University of Nebraska, Lincoln, Nebr. 68508.

Information on altitudes in the United States is contained in Bulletins \*5, \*76, \*160, \*274, \*689, \*817, and 1212 (\$1.75); information on boundaries and areas of the United States, and of the several States, with historical outlines of boundary changes, is contained in Bulletins \*13, \*171, \*226, \*302, \*689, \*817, and 1212 (\$1.75); information on results of primary triangulation and primary traverse from 1894 to 1918 is contained in Bulletins \*122, \*181, \*201, \*216, \*245, \*276, \*310, \*440, \*496, \*551, \*644, \*709, and \*Parts 1 of the \*18th, \*19th, \*20th, and \*21st Annual Reports. Further information on more recent triangulation, transit traverse, and spirit leveling in Nebraska is obtainable upon specific request.

*Current publications* are announced by means of monthly notices, "New Publications of the Geological Survey." Free on application to the Geological Survey, Washington, D.C. 20242.

### ANNUAL REPORTS

- \*Eighth, 1886-87. 1889. Part 2 contains: The geographical distribution of fossil plants, by L. F. Ward. p. 663-960.
- \*Thirteenth, 1891-92. 1892. Part 2 contains: The average elevation of the United States, by Henry Gannett. p. 283-289. Part 3 (1893) contains: Water supply for irrigation, by F. H. Newell. p. 1-99.
- \*Fourteenth, 1892-93. 1893. Part 2 (1894) contains: Natural mineral waters of the United States, by A. C. Peale. p. 49-88.
- \*Fifteenth, 1893-94. 1895. Contains: Preliminary report on the geology of the common roads of the United States, by N. S. Shaler. p. 259-306.
- \*Sixteenth, 1894-95. 1896. Part 1 contains: Principles of North American pre-Cambrian geology, by C. R. Van Hise, with an appendix on flow and fracture of rocks as related to structure, by L. M. Hopkins. p. 571-874. Part 2 (1895) contains: The public lands and their water supply, by F. H. Newell. p. 457-533; Water resources of a portion of the Great Plains, by Robert Hay. p. 535-588.
- \*Seventeenth, 1895-96. 1896. Part 1 contains: Magnetic declination in the United States, by Henry Gannett. p. 203-440.
- \*Eighteenth, 1896-97. Part 2 (1898) contains: A table of North American Tertiary horizons, correlated with one another and with those of western Europe, with annotations, by W. H. Dall. p. 323-348. Part 4 contains: Report of progress of stream measurements for the calendar year 1896, by A. P. Davis. p. 1-418.
- \*Nineteenth, 1897-98. 1898. Part 4 contains: Report of progress of stream measurements for the calendar year 1897, by F. H. Newell, including papers by Dwight Porter, J. B. Lippincott, and others. p. 1-632; Preliminary report on the geology and water resources of Nebraska west of the one hundred and third meridian, by N. H. Darton. p. 719-785. Part 5 (1899) contains: The forests of the United States, by Henry Gannett. p. 1-66; Pine Ridge timber, Nebraska, by N. H. Darton. p. 387.
- \*Twentieth, 1898-99. 1899. Part 4 (1900) contains: Report of progress of stream measurements for the calendar year 1898, by F. H. Newell. p. 1-562.
- \*Twenty-first, 1899-1900. 1900. Part 4 (1901) contains: Report of progress of stream measurements for the calendar year 1899, by F. H. Newell. p. 9-488; The High Plains and their utilization, by W. D. Johnson. p. 601-741. (See also Twenty-second Annual Report, pt. IV, c.)

## **ANNUAL REPORTS — Continued**

- \*Twenty-second, 1900-1901. 1901. Part 3 (1902) contains: The coal fields of the United States, by C. W. Hayes. p. 7-24; The western interior coal field, by H. F. Bain. p. 333-366. Part 4 contains: Report of progress of stream measurements for the calendar year 1900, by F. H. Newell. p. 9-506; The High Plains and their utilization (conclusion of paper in Twenty-first Annual Report), by W. D. Johnson. p. 631-669.

(Beginning with the twenty-third (1901-2), the annual reports of the Geological Survey contain no technical papers but were published separately until 1933. Since 1933 a condensed form has been included in the annual report of the Secretary of the Interior. For the fiscal years 1936 to 1963, a limited number of copies of the report as it appeared in the annual report of the Secretary were reprinted separately for official use; copies of these may be had free by persons directly interested, insofar as they are in stock.)

## **MINERAL RESOURCES OF THE UNITED STATES**

The annual volumes of Mineral Resources of the United States contain statistics of production by calendar years and matters relating to technology and resources. Some of the chapters deal with a particular mineral or group of minerals but much of the information is statistical. These volumes of Mineral Resources were issued by the Geological Survey for the years 1882 to 1923. Reports for 1924 and subsequent years are published by the Bureau of Mines, Washington, D.C. 20240, as Minerals Yearbooks.

## **MONOGRAPHS**

- \*17. The flora of the Dakota group, by Leo Lesquereux (a posthumous work, edited by F. H. Knowlton). 1892. 400 p.
- \*35. The later extinct floras of North America, by J. S. Newberry (a posthumous work, edited by Arthur Hollick). 1898. 295 p.
- \*44. Pseudoceratites of the Cretaceous, by Alpheus Hyatt, edited by T. W. Stanton. 1903. 351 p.
- \*49. The Ceratopsia, by J. B. Hatcher, based on preliminary studies by O. C. Marsh, edited and completed by R. S. Lull. 1907. 30 p.
- \*54. The Mesozoic and Cenozoic Echinodermata of the United States, by W. B. Clark and M. W. Twitchell. 1915. 341 p.
- \*55. The titanotheres of ancient Wyoming, Dakota, and Nebraska, by H. F. Osborn. 1929. In two volumes: V. 1, p. 1-701; v. 2, p. 703-953.

## **GEOLOGIC FOLIOS**

- \*85. Oelrichs, S. Dak.-Nebr., by N. H. Darton. 1902. 6 (1) p., 4 maps.
- \*87. Camp Clarke, Nebr., by N. H. Darton. 1903. 4 (1) p., 2 maps.
- \*88. Scotts Bluff, Nebr., by N. H. Darton. 1903. 5 (1) p., 2 maps.
- \*108. Edgemont, S. Dak.-Nebr., by N. H. Darton and W. S. T. Smith. 1904. 10 (1) p., 4 maps.
- \*156. Elk Point, S. Dak.-Nebr.-Iowa, by J. E. Todd. 1908. 8 p., 3 maps.

## **PROFESSIONAL PAPERS**

- \*17. Preliminary report on the geology and water resources of Nebraska west of the one hundred and third meridian, by N. H. Darton. 1903. 69 p.

# PROFESSIONAL PAPERS – Continued

- \*32. Preliminary report on the geology and underground water resources of the central Great Plains, by N. H. Darton. 1905. 433 p.
- \*58. The Guadalupian fauna, by G. H. Girty. 1908. 651 p.
- \*135. The composition of the river and lake waters of the United States, by F. W. Clarke. 1924. 199 p.
- \*272-D. Evaporation from the 17 Western States, by J. S. Meyers, with a section on Evaporation rates, by T. J. Nordenson, U.S. Weather Bureau. 1962. p. 71-100.
- 328. Geology of the Yankton area, South Dakota and Nebraska, by H. E. Simpson. 1960 (1961). 124 p. \$2.25.
- 330-B. *Aechminella*, *Amphissites*, *Kirkbyella*, and related genera, by I. G. Sohn. 1961 (1962). p. 107-160. 65¢.
- \*337. Late Cenozoic Molluscan faunas from the High Plains, by D. W. Taylor. 1960. 94 p.
- \*352-B. The shape of alluvial channels in relation to sediment type, by S. A. Schumm. 1960. p. 17-30.
- \*352-C. Effect of sediment characteristics on erosion and deposition in ephemeral-stream channels, by S. A. Schumm. 1961. p. 31-70.
- ✓ 352-H. Erosion and deposition in the loess-mantled Great Plains, Medicine Creek drainage basin, Nebraska, by J. C. Brice. 1966. p. 255-339. 55¢.
- \*354-G. Deposition of uranium in salt-pan basins, by K. G. Bell. 1960. p. 161-169.
- 356-A. Oil yield and uranium content of black shales, by V. E. Swanson. 1960. p. 1-44. 30¢.
- \*375. Paleocene flora of the Rocky Mountains and Great Plains, by R. W. Brown. 1962. 119 p.
- \*392-B. Mineralogy and stratigraphy of the lower part of the Pierre Shale, South Dakota and Nebraska, by L. G. Schultz. 1965. p. B1-B19.
- \*400-A. Geological Survey Research 1960, Synopsis of geologic results. 1960. p. A1-A136.
- \*400-B. Short papers in the geological sciences. Articles 1-232. 1960. p. B1-B515. Contains the following articles, which are not available separately.
  - 205. Stratigraphic variations in mineralogy and chemical composition of the Pierre shale in South Dakota and adjacent parts of North Dakota, Nebraska, Wyoming, and Montana, by H. A. Tourtelot, L. G. Schultz, and J. R. Gill. p. B447.
  - 209. Early stages of evaporite deposition, by E-an Zen. p. B458.
- ✓ \*422-D. Channel patterns and terraces of the Loup Rivers in Nebraska, by J. C. Brice. 1964. p. D1-D41.
- 424-A. Geological Survey Research 1961, Synopsis of geologic and hydrologic results. 1961. p. A1-A194. \$1.50.
- \*424-B. Short papers in the geologic and hydrologic sciences, Articles 1-146. 1961. p. B1-B344. Contains the following articles, which are not available separately.
  - 21. Methods for study of evapotranspiration, by O. E. Leppanen. p. B43.
  - 130. Economic significance of a buried bedrock bench beneath the Missouri River flood plain near Council Bluffs, Iowa, by R. D. Miller. p. B301.
- \*424-C. Short papers in the geologic and hydrologic sciences, Articles 147-292. p. C1-C398. Contains the following article, which is not available separately.
  - 209. Middle and upper Tertiary rocks of southeastern Wyoming and adjoining areas, by N. M. Denson and M. H. Bergendahl. p. C168.

## PROFESSIONAL PAPERS — Continued

- 424-D. Short papers in the geologic and hydrologic sciences, Articles 293-435. 1961. p. D1-D408. \$2.75. Contains the following articles, which are not available separately.
- 300. The significance of the fall velocity and effective fall diameter of bed materials, by W. L. Haushild, D. B. Simons, and E. V. Richardson. p. D17.
  - 301. Qualitative effects of temperature on flow phenomena in alluvial channels, by D. W. Hubbell and Khalid Al-Shaikh Ali. p. D21.
  - 352. Stratigraphy of lower and middle parts of the Pierre shale, northern Great Plains, by J. R. Gill and W. A. Cobban. p. D185.
- \*426. Data on uranium and radium in ground water in the United States 1954 to 1957, by R. C. Scott and F. B. Barker. 1962. 115 p.
- \*433-C. Transport and dispersion of labeled bed material, North Loup River, Nebr., by W. W. Sayre and D. W. Hubbell. 1965. p. C1-C48.
- \*450-A. Geological Survey Research 1962, Synopsis of geologic, hydrologic, and topographic results. 1962. p. A1-A257.
- \*455-A—F. Geology of uranium-bearing veins in the conterminous United States. 1963 (1964). 120 p. Includes the following chapters.**
- A. Introduction to the geology of uranium-bearing veins in the conterminous United States, including sections on geographic distribution and classification of veins, by G. W. Walker and F. W. Osterwald. p. 1-28.
  - B. Age of uranium-bearing veins in the conterminous United States, by G. W. Walker. p. 29-35.
  - C. Host rocks and their alterations as related to uranium-bearing veins in the conterminous United States, by G. W. Walker. p. 37-53.
  - D. Mineralogy, internal structural and textural characteristics, and paragenesis of uranium-bearing veins in the conterminous United States, by G. W. Walker and J. W. Adams. p. 55-90.
  - E. Supergene alteration of uranium-bearing veins in the conterminous United States, by G. W. Walker. p. 91-103.
  - F. Concepts of origin of uranium-bearing veins in the conterminous United States, by G. W. Walker and F. W. Osterwald. p. 105-120.
- \*445-G. Structural control of uranium-bearing veins, deposits and districts in the conterminous United States, by F. W. Osterwald. 1965. p. 121-146. (Includes title page and contents for volume.)
- \*472. Geology of the Omaha-Council Bluffs area, Nebraska-Iowa, by R. D. Miller. 1964 (1965). 70 p.
- \*475-A. Geological Survey Research 1963, Summary of investigations. 1963. p. A1-A300.
- 475-C. Short papers in geology and hydrology, Articles 60-121. 1963. p. C1-C233. \$2. Contains the following article, which is not available separately.
- 66. Mississippian rocks in the Laramie Range, Wyo., and adjacent areas, by E. K. Maughan. p. C23.
- \*475-D. Short papers in geology and hydrology, Articles 122-172. 1964. p. D1-D223. Contains the following article, which is not available separately.
- 135. Cadmium in samples of the Pierre Shale and some equivalent stratigraphic units, Great Plains region, by H. A. Tourtelot, Claude Huffman, Jr., and L. F. Rader. p. D73.
- \*491-A. Introduction, spread, and areal extent of saltcedar (*Tamarix*) in the Western States, by T. W. Robinson. 1965. p. A1-A12.

## PROFESSIONAL PAPERS — Continued

- \*501-A. Geological Survey Research 1964. 1964. p. A1-A367.
- \*525-A. Geological Survey Research 1965. 1965. p. A1-A376.
530. The geologic occurrence of monazite, by W. C. Overstreet. 1967. 327 p. \$3.
538. Geology of epigenetic uranium deposits in sandstone in the United States, by W. I. Finch. 1967. 121 p. \$1.50.
- 544-C. Hydrologic effects of the earthquake of March 27, 1964, outside Alaska, by R. C. Vorhis, E. E. Rexin, and R. W. Coble. 1967. p. C1-C54. 45¢.
- 550-A. Geological Survey Research 1966. 1966 (1967). p. A1-A385. \$2.50.
- \*550-C. Geological Survey Research 1966. 1966. p. C1-C269. Contains the following articles, which are not available separately.
- Eocene paleosol in the northern Great Plains, by W. A. Pettyjohn. p. C61.
- Chemical effects of irrigation-return water, North Platte River, western Nebraska, by G. V. Gordon. p. C244.
- 550-D. Geological Survey Research 1966. 1966. p. D1-D267. \$2.25. Contains the following article, which is not available separately.
- The White River Formation as an aquifer in southeastern Wyoming and adjacent parts of Nebraska and Colorado, by M. E. Lowry. p. D217.
561. Chemical composition of sedimentary rocks in Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, and Wyoming, compiled by T. P. Hill, M. A. Werner, and M. J. Horton, with an introduction by W. W. Rubey. 1967. 241 p. \$3.50.
- 575-A. Geological Survey Research 1967. 1967. p. A1-A377. \$2.25.
- \*575-B. Geological Survey Research 1967. 1967. p. B1-B265. Contains the following articles, which are not available separately.
- Some observations on a channel scarp in southeastern Nebraska, by J. C. Mundorff. p. B77.
- Diurnal temperature fluctuations of three Nebraska streams, by K. S. Mackichan. p. B233.
- \*575-C. Geological Survey Research 1967. 1967. p. C1-C251. Contains the following article, which is not available separately.
- Volcanism and tectonism as reflected by the distribution of nonopaque heavy minerals in some Tertiary rocks of Wyoming and adjacent States, by Yoshiaki Sato and N. M. Denson. p. C42.
- 600-A. Geological Survey Research 1968. 1968. p. A1-A371. \$3.50.
- 650-A. Geological Survey Research 1969. 1969 (1970). p. A1-A425. \$4.
- 650-C. Geological Survey Research 1969. 1969. p. C1-C247. \$3. Contains the following article, which is not available separately.
- Distribution of nonopaque heavy minerals in Miocene and Pliocene rocks of central Wyoming and parts of adjacent States, by N. M. Denson. p. C25.
- 700-A. Geological Survey Research 1970. 1970 (1971). p. A1-A426. \$4.
- 700-C. Geological Survey Research 1970. 1970. p. C1-C251. \$3.25. Contains the following article, which is not available separately.
- Use of channel slope and discharge to determine reaeration coefficients for the Elkhorn River in Nebraska, by K. A. MacKichan, N. G. Stuthmann, and Ray Bentall. p. C193.

## BULLETINS

- \*32. Lists and analyses of the mineral springs of the United States—A preliminary study, by A. C. Peale. 1886. 225 p.

## BULLETINS — Continued

- \*42. Report of the work done in the division of chemistry and physics, mainly during the fiscal year 1885-86. 1887. 152 p. Contains: Miscellaneous analyses. p. 136-149.
- \*80. Correlation papers: Devonian and Carboniferous, by H. S. Williams. 1891. 279 p.
- \*82. Correlation papers: Cretaceous, by C. A. White. 1891. 273 p.
- \*84. Correlation papers: Neocene, by W. H. Dall and G. D. Harris. 1892. 349 p.
- \*87. A synopsis of American fossil Brachiopoda, including bibliography and synonymy, by Charles Schuchert. 1897. 464 p.
- \*97. The Mesozoic Echinodermata of the United States, by W. B. Clark. 1893. 207 p.
- \*106. The Colorado formation and its invertebrate fauna, by T. W. Stanton. 1893. 288 p.
- \*123. A dictionary of geographic positions in the United States, compiled by Henry Gannett. 1895. 183 p.
- \*140. Report of progress of the division of hydrography for the calendar year 1895. 1896. 356 p.
- \*225. Contributions to economic geology, 1903. 1904. Contains: Lignites of the middle and upper Missouri Valley, by E. F. Burchard. p. 276-288.
- \*258. The origin of certain place names in the United States, by Henry Gannett. 1905. 334 p.
- \*264. Record of deep-well drilling for 1904, by M. L. Fuller, E. F. Lines, and A. C. Veatch. 1905. 106 p.
- \*360. Pre-Cambrian geology of North America, by C. R. Van Hise and C. K. Leith. 1909. 939 p.
- \*361. Cenozoic mammal horizons of western North America, by H. F. Osborn, with faunal lists of the Tertiary Mammalia of the West, by W. D. Matthew. 1909. 138 p.
- \*430. Contributions to economic geology, 1909—Part 1. 1910. Contains: Cement materials in Republican Valley, Nebr., by N. H. Darton. p. 381-387.
- \*465. The State geological surveys of the United States, compiled under the direction of C. W. Hayes. 1911. 177 p.
- \*473. Results of spirit leveling in Kansas and Nebraska, 1896 to 1909, inclusive. 1911. 42 p. (See also Bulletin 572 for Nebraska.)
- \*522. Portland cement materials and industry in the United States, by E. C. Eckel, with contributions by E. F. Burchard and others. 1913. 401 p.
- \*540. Contributions to economic geology, 1912—Part 1. 1913. Contains: Potash in western saline deposits, by J. H. Hance. p. 457-469.
- \*572. Results of spirit leveling in Nebraska, 1896 to 1913, inclusive. 1914. 57 p.
- \*585. Useful minerals of the United States, compiled by Samuel Sanford and R. W. Stone. 1914. 250 p. (See also Bulletin 624.)
- \*612. Guidebook of the western United States—Part B, The Overland Route, with a side trip to Yellowstone Park, by W. T. Lee, R. W. Stone, H. S. Gale, and others. 1915. 244 p.
- \*624. Useful minerals of the United States, compiled by F. C. Schrader, R. W. Stone, and Samuel Sanford. 1916. 412 p.
- \*666. Our mineral supplies. 1919. 278 p. Contains: Potash, by H. S. Gale. 4 p.; Clay, by Jefferson Middleton. 3 p.
- \*691. Contributions to economic geology, 1918—Part 2. 1919. Contains: The structure of parts of the central Great Plains, by N. H. Darton. p. 1-26.
- \*701. Geothermal data of the United States, including many original determinations of underground temperature, by N. H. Darton. 1920. 97 p.



## **BULLETINS — Continued**

- \*715. Contributions to economic geology, 1920—Part 1. 1921. Contains: Potash resources of Nebraska, by W. B. Hicks. p. 125-139.
- \*896. Lexicon of geologic names of the United States (including Alaska), by M. G. Wilmarth. 1938. Part I, A-L, p. 1-1244; part 2, M-Z, p. 1245-2396. (See Bulletins 1200 and 1350.)
- \*1001. General and engineering geology of the Wray area, Colorado and Nebraska, by D. R. Hill and J. M. Tompkin. 1953. 65 p.
- 1042-G. Gem stones of the United States, by D. M. Schlegel. 1957. p. 203-253. 35¢. (Reprint.)
- 1046-R. Uranium in Sharon Springs member of Pierre shale, South Dakota and northeastern Nebraska, by R. C. Kepferle. 1959. p. 577-604. 70¢.
- \*1071-C. Origin of steps on loess-mantled slopes, by J. C. Brice. 1958. p. 69-85.
- \*1084-C. Selenium content of some volcanic rocks from Western United States and Hawaiian Islands, by D. F. Davidson and H. A. Powers. 1959. p. 69-81.
- \*1087-I. Relation of uranium deposits to tectonic pattern of the Central Cordilleran foreland, by F. W. Osterwald and B. G. Dean. 1961. p. 337-390.
- 1133-B. Geology and hydrology of the site of the Hallam Nuclear Power Facility, Nebr., by C. F. Keech. 1962. p. B1-B51. 65¢.
- \*1136. Coal reserves of the United States—A progress report, January 1, 1960, by Paul Averitt. 1961. 116 p. (Superseded by Bulletin 1275.)
- 1148. Summary of rock salt deposits in the United States as possible storage sites for radioactive waste materials, by W. G. Pierce and E. I. Rich. 1962. 91 p. \$1.25.
- \*1165. Geology of Franklin, Webster, and Nuckolls Counties, Nebr., by R. D. Miller, Richard Van Horn, Ernest Dobrovlny, and L. P. Buck. 1964 (1965). 91 p.
- \*1200. Lexicon of geologic names of the United States for 1936-1960, by G. C. Keroher and others. 1966. Part 1, A-F (v. 1, p. 1-1448); Part 2, G-O (v. 2, p. 1449-2886); Part 3, P-Z (v. 3, p. 2887-4341). (See Bulletin 1350.)
- 1275. Coal resources of the United States, January 1, 1967, by Paul Averitt. 1969. 116 p. 65¢.
- 1350. Lexicon of geologic names of the United States for 1961-1967, by G. C. Keroher. 1970. 848 p. \$3.50.

## **WATER-SUPPLY PAPERS**

- \*5. Irrigation practice on the Great Plains, by E. B. Cowgill. 1897. 39 p.
- \*11. River heights for 1896, by A. P. Davis. 1897. 100 p.
- \*12. Underground waters of a portion of southeastern Nebraska, by N. H. Darton. 1898. 56 p.
- \*29. Wells and windmills in Nebraska, by E. H. Barbour. 1899. 85 p.
- \*44. Profiles of rivers in the United States, by Henry Gannett. 1901. 100 p.
- \*70. Geology and water resources of the Patrick and Goshen Hole quadrangles, in eastern Wyoming and western Nebraska, by G. I. Adams. 1902. 50 p.
- \*93. Proceedings of first conference of engineers of the Reclamation Service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. Contains: Reclamation and water storage in Nebraska, by O. V. P. Stout. p. 276-284.
- \*149. Preliminary list of deep borings in the United States, by N. H. Darton. 1905. 175 p.
- \*184. The underflow of the South Platte valley, by C. S. Slichter and W. C. Wolff. 1906. 42 p.

## WATER-SUPPLY PAPERS — Continued

- \*215. Geology and water resources of a portion of the Missouri River valley in northeastern Nebraska, by G. E. Condra. 1908. 59 p.
- \*216. Geology and water resources of the Republican River valley and adjacent areas, Nebraska, by G. E. Condra. 1907. 71 p.
- \*230. Surface water supply of Nebraska, by J. C. Stevens. 1909. 251 p.
- \*236. The quality of surface waters in the United States—Part 1, Analyses of waters east of the one hundredth meridian, by R. B. Dole. 1909. 123 p.
- \*340. Stream-gaging stations and publications relating to water resources, 1885-1913, compiled by B. D. Wood. 1916. Contains: Part 6, Missouri River basin. p. 63-81.
- \*425. Contributions to the hydrology of the United States, 1917. 1919. Contains: Ground water for irrigation in Lodgepole Valley, Wyo. and Nebr., by O. E. Meinzer. p. 37-69.
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- HA-217. General availability of ground water and depth to water level in the Missouri River basin, by G. A. La Rocque, Jr. 1966. Scale 1:2,500,000. 75¢.
- HA-235. Temperature of surface waters in the conterminous United States, by J. F. Blakey. 1966. Scale 1:5,000,000. 3 sheets. Accompanied by 8-page text. \$1.25.
- ✓ HA-258. Floods in Seward quadrangle, southeastern Nebraska, by F. B. Shaffer and K. J. Braun. 1967. Lat 40°52'30" to 41°, long 97° to 97°07'30". Scale 1:24,000. 75¢.
- ✓ HA-266. Availability of water in eastern Saunders County, Nebr., by V. L. Souders. 1967. Scale 1:125,000. 75¢.
- ✓ HA-287. Availability of ground water in Adams County, Nebr., by C. F. Keech and V. H. Dreeszen. 1968. Scale 1:125,000. 50¢.
- ✓ HA-316. Water resources of Antelope County, Nebr., by V. D. Souders and F. B. Shaffer. 1969. 3 sheets. \$1.50 per set.
- HA-332. Travel of solutes in the lower Missouri River, by J. E. Bowie and L. R. Petri. 1969. 50¢.
- ✓ HA-352. Flood of June 1967 at Grand Island, Nebr. by F. B. Shaffer and K. J. Braun. 1970. Lat 40°52'30" to 41°, long 98°15' to 98°30'. Scale 1:24,000. 75¢.

**\*INTERPRETING GEOLOGIC MAPS FOR ENGINEERING PURPOSES.** 1953 (1954). Six maps of the Hollidaysburg, Pa., quadrangle. Scale 1:62,500.

## LAND CLASSIFICATION MAPS

\*Central Great Plains, in 5 sheets: Sheet 1, northwestern Nebraska, by E. R. Greenslet, 34 p.; sheet 2, western Kansas and southwestern Nebraska, by J. Q. Peterson, R. E. Morgan, and E. R. Greenslet. 36 p.

## MINERAL INVESTIGATIONS FIELD STUDIES MAPS

MF-120. Uranium deposits and principal ore-bearing formations of the central Cordilleran foreland region, by T. L. Finnell and I. S. Parrish. 1958. 2 sheets; sheet 1 (map), scale 1:750,000, sheet 2 (table and text). 75¢ per set. (See also Bulletin 1087-I.)

## **MINERAL INVESTIGATIONS FIELD STUDIES MAPS — Continued**

MF-129. Preliminary tectonic map of western Nebraska and northwestern Kansas showing the distribution of uranium deposits, compiled by F. W. Osterwald and B. G. Dean. 1958. Scale 1:500,000. 2 sheets. 50¢ per set.

## **MINERAL INVESTIGATIONS RESOURCES MAPS**

The following maps cover the resources indicated for the United States, exclusive of Alaska and Hawaii. All are printed at a scale of 1:3,168,000 and are sold at 75¢ each, unless otherwise indicated.

MR-2. The uranium deposits, compiled by R. W. Schnabel. 1955. Scale 1:5,000,000. 50¢.

MR-3. Potash occurrences, by M. F. Byrd. 1955. Scale 1:5,000,000. 50¢.

MR-21. Epigenetic uranium deposits, by A. P. Butler, Jr., W. I. Finch, and W. S. Twenhofel. 1962.

MR-33. Gypsum and anhydrite, by C. F. Withington. 1962.

## **MISCELLANEOUS GEOLOGIC INVESTIGATIONS MAPS**

I-387. Fluoride content of ground water in the conterminous United States, by Michael Fleischer. 1962. Scale 1:5,000,000. 50¢.

## **MISSOURI BASIN STUDIES**

1. Mineral resources of the Missouri Valley region, compiled by D. H. Dow, D. M. Larrabee, and S. E. Clabaugh. 1945-1946. These maps cover the entire basin. They show sedimentary and igneous rocks of different ages. Structure-contour lines are also given. Part 1 shows metallic mineral resources; part 2, the nonmetallic mineral resources; part 3, fuel resources; and part 4, construction materials. Scale 1:2,500,000. 4 sheets. 40¢ a sheet, or \$1.50 per set.

7. Preliminary map showing sand and gravel deposits of Nebraska, by R. A. Weeks and D. M. Larrabee. 1948. Scale 1:750,000. 55¢.

15. Map showing construction materials and nonmetallic mineral resources of Nebraska, by R. W. Richards, R. A. Weeks, and D. M. Larrabee. 1948. Scale 1:750,000. 40¢.

## **OIL AND GAS INVESTIGATIONS MAPS**

10. Maps showing thickness and general character of the Cretaceous deposits in the western interior of the United States, by J. B. Reeside, Jr. 1944. Scale 1:13,939,200. 25¢.

\*48. Structural development of the Forest City basin of Missouri, Kansas, Iowa, and Nebraska, by Wallace Lee and others. 1946. Scale 1:750,000. 7 sheets.

OM-184. Index map of central midcontinent region giving lines of sections that show detailed lithology of Paleozoic and Mesozoic rocks, by Jeannette Fox and M. G. Seldon. 1957. Scale 1:2,500,000. 50¢.

OM-198. Map of Nebraska showing areal distribution of pre-Pennsylvanian rocks, anticlines and basins, oil and gas fields, pipelines, and unsuccessful test wells, by E. C. Reed, R. F. Svoboda, G. E. Prichard, and Jeannette Fox. 1958. Scale 1:500,000. \$1.

**\*PALEOCENE DEPOSITS OF THE ROCKY MOUNTAINS AND PLAINS**, by R. W. Brown. 1949. Shows the areas of outcrop of the earliest Tertiary (Paleocene) rocks from Montana and North Dakota south to Arizona and New Mexico. The upper and lower boundaries of the Paleocene deposits and their areal relations with Cretaceous and younger Tertiary rocks are indicated. A brief discussion of Paleocene formations is printed on the same sheet. Scale 1:1,000,000. (See Professional Paper 375.)

**MISCELLANEOUS REPORTS** (free upon application to the Geological Survey, Washington, D.C. 20242.):

- List 1. Press releases, preliminary maps, and preliminary reports released between Jan. 1, 1938, and Jan. 1, 1945.
- List 2. Press releases, preliminary maps, and preliminary reports released between Jan. 1, 1945, and Jan. 1, 1946.

#### REFERENCE LIBRARIES

Many of the publications listed herein may be consulted in the following libraries in Nebraska:

**FREMONT:**

Midland College.

**LINCOLN:**

Nebraska Conservation and Survey  
Division.

Nebraska State Library.  
University of Nebraska.

**OMAHA:**

Municipal University of Omaha.  
Public.

**SCOTTSBLUFF:**

Public.